

**METHOD AND APPARATUS OF SPEECH CODING AND CHANNEL CODING  
TO IMPROVE VOICE QUALITY AND RANGE IN TWO-WAY RADIOS**

**ABSTRACT OF THE DISCLOSURE**

- 5        A two way radio (300) includes a scalable speech coder (306) and a scalable channel coder (308) controlled via a supporting protocol that transmits predetermined digital audio quality and predetermined audio output bit rate information at regular intervals.